

Aremco AREMCOLOX™ 502-1900-ZTA Dense Zirconia-Toughened Aluminum Oxide

Category : Ceramic , Oxide , Aluminum Oxide

Material Notes:

This grade is made up of > 80% alumina and the balance yttria stabilized zirconia (Y-TZP). Provides some of the advantages of pure Y-TZP at a reduced price. The addition of zirconia increases greatly the fracture toughness, mechanical strength and impact resistance of the alumina. Used for pump components, bushings, bearings, and cutting tool inserts.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Aremco-AREMCOLOX-502-1900-ZTA-Dense-Zirconia-Toughened-Aluminum-Oxide.php

Physical Properties	Metric	English	Comments
Specific Gravity	4.30 g/cc	4.30 g/cc	
Porosity	0.00 %	0.00 %	

Mechanical Properties	Metric	English	Comments
Hardness, Mohs	16.0	16.0	
Flexural Strength	448 MPa	65000 psi	
Compressive Strength	2900 MPa	421000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	8.28 $\mu\text{m}/\text{m}\cdot\text{°C}$	4.60 $\mu\text{in}/\text{in}\cdot\text{°F}$	
Thermal Conductivity	27.0 W/m-K	187 BTU-in/hr-ft ² -°F	
Maximum Service Temperature, Air	1200 °C	2190 °F	

Electrical Properties	Metric	English	Comments
Dielectric Constant	10.6	10.6	
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	8.98 kV/mm	228 kV/in	
Dielectric Loss Index	0.00050	0.00050	
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	

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